Product Specifications

COMMSCOPE®

4103704/10 | 2229K CMRL RG6 QD BC 1000

RG 6 Type Quad Shield Plenum Video Coaxial Cable, cream jacket, 1000 ft (305 m) reel

Construction Materials

Construction Type	Non-armored
Center Conductor Material	Bare copper
Dielectric Material	Foam FEP
Inner Shield (Braid) Coverage	60 %
Inner Shield (Braid) Gauge	34 AWG
Inner Shield (Braid) Material	Aluminum
Inner Shield (Tape) Material	Aluminum/Poly, bonded
Jacket Material	PVDF
Outer Shield (Braid) Coverage	40 %
Outer Shield (Braid) Gauge	34 AWG
Outer Shield (Braid) Material	Aluminum
Outer Shield (Tape) Material	Aluminum/Poly, non-bonded

Dimensions

Cable Length	305 m | 1000 ft
Cable Weight	30.00 lb/kft
Diameter Over Center Conductor	1.0236 mm per 1 strand 0.0403 in per 1 strand
Diameter Over Center Conductor Tolerance	±0.0004 in
Diameter Over Dielectric	4.3180 mm | 0.1700 in
Diameter Over Jacket	6.604 mm | 0.260 in
Diameter Over Jacket Tolerance	±0.004 in
Jacket Thickness	0.406 mm | 0.016 in
Jacket Thickness, minimum spot	0.330 mm | 0.013 in
Diameter Over Inner Shield (Braid)	5.131 mm | 0.202 in
Diameter Over Outer Shield (Braid)	5.893 mm | 0.232 in

Electrical Specifications

Capacitance	50.9 pF/m | 15.5 pF/ft
Characteristic Impedance	75 ohm
Characteristic Impedance Tolerance	±3 ohm
Conductor dc Resistance	6.40 ohms/kft
Dielectric Strength, conductor to shield	2500 Vdc
Jacket Spark Test Voltage	2500 Vac
Nominal Velocity of Propagation (NVP)	84 %
Shield dc Resistance	5.30 ohms/kft
Structural Return Loss	15 dB @ 1000–3000 MHz | 20 dB @ 50–1000 MHz | 25 dB @ 5-50MHz
Structural Return Loss Test Method	100% Swept Tested

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Environmental Specifications

Environmental Space	Plenum
Flame Test Method	CMP
Operating Temperature	-40 °C to +125 °C (-40 °F to +257 °F)
Safety Standard	cETL | ETL
UL Temperature Rating	125 °C | 257 °F

General Specifications

Cable Type	Series 6
Jacket Color	Cream
Product Number	2229K
Center Conductor Gauge	18 AWG
Center Conductor Type	Solid
Packaging Type	Reel

Mechanical Specifications

Minimum Bend Radius, loaded	20 times
Minimum Bend Radius, unloaded	10 times

Electrical Performance

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
1 MHz	0.85	0.26
10 MHz	2.30	0.70
50 MHz	4.85	1.48
100 MHz	6.59	2.01
200 MHz	9.38	2.86
400 MHz	13.87	4.23
600 MHz	17.77	5.42
700 MHz	19.55	5.96
900 MHz	22.83	6.96
1000 MHz	24.44	7.45
1450 MHz	30.64	9.34
2200 MHz	37.85	11.54
3000 MHz	42.87	13.07

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2002/95/EC	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

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